Unly pages 20012-20013

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 7 June 2001 (07.06.2001)

PCT

(10) International Publication Number WO 01/40521 A2

(51) International Patent Classification?:

CT 06516 (US). LEACH, Martin [GB/US]; 884 School Street, Webster, MA 01570 (US).

Glovsky and Popeo, P.C., One Financial Center, Boston,

(21) International Application Number: PCI/US00/32758

C12Q 1/68

(74) Agent: ELRIFI, Ivor, R.; Mintz, Levin, Cohn, Ferris,

MA 02111 (US).

(22) International Filing Date:

30 November 2000 (30.11.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/168,138 09/726,173

30 November 1999 (30.11.1999)

29 November 2000 (29.11.2000)

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:

US 60/168,138 (CIP) Filed on 30 November 1999 (30.11.1999) US Not furnished (CIP) 29 November 2000 (29.11.2000) Filed on

(71) Applicant (for all designated States except US): CURA-GEN CORPORATION [US/US]; 555 Long Wharf Drive, 11th Floor, New Haven, Cf 06511 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SHIMKETS, Richard, A. [US/US]; 191 Leete Street, West Haven,

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, PI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SL, SK, SL, TJ, TM,

TR, TI, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NUCLEIC ACIDS CONTAINING SINGLE NUCLEOTIDE POLYMORPHISMS AND METHODS OF USE THEREOF

(57) Abstract: The invention provides nucleic acids containing single-nucleotide polymorphisms identified for transcribed human sequences, as well as methods of using the nucleic acids.

WO 01/40521 PCT/US00/32758

```
Thr Gly Arg Val Ile Gly Val Val Asp Glu Ala Ala Ala Asp
<210> 6861
<211> 3
<212> PRT
<213> Homo sapiens
<221> misc_feature
<222> (0) ... (0)
<223> Peptide 1 of 2 allelic variants (6862 is other peptide)
<400> 6861
Asp Leu Lys
<210> 6862
<211> 3
<212> PRT
<213> Homo sapiens
<221> misc_feature
<222> (0) ... (0)
<223> Peptide 2 of 2 allelic variants (6861 is other peptide)
<400> 6862
Asp Leu Lys
1
<210> 6863
<211> 14
<212> PRT
<213> Homo sapiens
<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation
<221> misc_feature
<222> (0) ... (0)
<223> Peptide 1 of 2 allelic variants (6864 is other peptide)
<400> 6863
Cys Phe Ser Arg Leu Ser Thr Leu Leu Glu His Arg His Thr
                5
                                    10
<210> 6864
<211> 14
<212> PRT
<213> Homo sapiens
<220>
<221> VARIANT
<222> (7) ... (0)
<223> cSNP translation
<221> misc_feature
```

WO 01/40521 PCT/US00/32758

```
<222> (0)...(0)
<223> Peptide 2 of 2 allelic variants (6863 is other peptide)
<400> 6864
Cys Phe Ser Arg Leu Ser Ser Leu Leu Glu His Arg His Thr
            5
                                   10
<210> 6865
<211> 14
<212> PRT
<213> Homo sapiens
<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation
<221> misc_feature
<222> (0)...(0)
<223> Peptide 1 of 2 allelic variants (6866 is other peptide)
Asp Glu Leu Ala Glu Val Phe Ala Pro Tyr Thr Asn Val Thr
                5
                                    10
<210> 6866
<211> 14
<212> PRT
<213> Homo sapiens
<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation
<221> misc_feature
<222> (0) ... (0)
<223> Peptide 2 of 2 allelic variants (6865 is other peptide)
<400> 6866
Asp Glu Leu Ala Glu Val Leu Ala Pro Tyr Thr Asn Val Thr
<210> 6867
<211> 14
<212> PRT
<213> Homo sapiens
<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation
<221> misc_feature
<222> (0) ... (0)
<223> Peptide 1 of 2 allelic variants (6868 is other peptide)
<400> 6867
Tyr Glu Tyr Ser Pro Glu Ile Phe Ser Gln Thr Arg Thr Asp
```

ACCESSION NUMBER: 2001:417197 CAPLUS

DOCUMENT NUMBER: 135:41811

TITLE: Nucleic acids containing human single nucleotide

polymorphisms and methods of their use Shimkets, Richard A.; Leach, Martin

INVENTOR(S): PATENT ASSIGNEE(S):

Curagen Corp., USA PCT Int. Appl., 2653 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.			IND	DATE		APPLICATION NO.						DATE		
WO 2001040521 WO 2001040521			A2 20010607		0607	WO 2000-US32758								
w:	AE, AG, CR, CU, HU, ID, LU, LV, SD, SE,	CZ, DI IL, II MA, M	E, DK, N, IS, D, MG,	DM, JP, MK,	DZ, KE, MN,	EE, KG, MW,	ES, KP, MX,	FI, KR, MZ,	GB, KZ, NO,	GD, LC, NZ,	GE, LK, PL,	GH, LR, PT,	GM, LS, RO,	HR, LT, RU,
RW:	YU, ZA, GH, GM, DE, DK, BJ, CF,	ZW, AI KE, L ES, F	M, AZ, S, MW, I, FR,	BY, MZ, GB,	KG, SD, GR,	KZ, SL, IE,	MD, SZ, IT,	RU, TZ, LU,	TJ, UG, MC,	TM ZW, NL,	AT,	BE, SE,	CH,	CY,
CA 2392948 EP 1235936			AA A 2	20010607 20020904			CA 2000-2392948 EP 2000-982352				20001130 20001130			
	AT, BE, IE, SI, 508003 LN. INFO	LT, L	V, FI,	RO, 20040	мк, 0318	CY,	AL, JP 20	TR 001-5 999-5	5425 1681 7261	84 38P 73	1	2 P 1: A 2:	MC, 0001: 9991: 0001:	130 130 129

CN L-Threonine, L-cysteinyl-L-phenylalanyl-L-seryl-L-arginyl-L-leucyl-L-seryl-L-seryl-L-leucyl-L- α -glutamyl-L-histidyl-L-arginyl-L-histidyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1367: PN: WO0140521 SEQID: 6864 claimed sequence

SQL 14

SEQ 1 CFSRLSSLLE HRHT Pay 293 (266)

HITS AT: 2-7